

Chemistry Chapter 3 Review

Grade: 11th
Subject: chemistry
Date: 10/31

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- 1 A form of matter with a constant volume that takes the shape of its container

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2 A form of matter that has a definite shape and volume

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3 A separation technique that results in the formation of pure solid particles from a solution

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4 A technique that separates the components of a mixture; this technique uses a fixed substrate

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5 A homogenous mixture is a _____?

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6 Color is a intensive physical property

True

False

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7 Mass is a extensive physical property

True

False

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8 Malleability is a extensive physical property

True

False

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9 A 24 g sample of carbon combines with 64 g of oxygen to form CO_2 . Answer the following three questions.

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10 What is the mass of the reactants (in grams)?



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11 What is the mass of the products (in grams)?

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12 Which law do these data support?

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13 You have 9.63 g of a sample of compound A+B.
Element A weighs 6.42 g. What is the mass percentage
of A?

$$\frac{6.42 \text{ A}}{9.63 \text{ (AB)}} \times 100$$

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14 The compound of A+B has a mass of 40 g. Element A weighs 8 grams. What is the mass percentage of A?

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15 Which is a compound?

- A air
- B nickel
- C salt

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Water (H_2O)	25g	2.8g H 22.2g O	H 11.2% O 88.8%
CC	85.2g	C = 36.6g O = 48.6g	43% C 57% O
H_2O	48.9g	H = 5.4g O = 43.5g	
CO	17.7g	C = 7.6g O = 10.1g	

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